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(71) Applicant (for all designated States except US): CECA S.A. [FR/FR]; 4-8, Cours Michelet, F-92800 Puteaux (FR).

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(72) Inventors; and
(75) Inventors/Applicants (for US only): LUTZ, Cécile [FR/FR]; 9, Rue Monpensier, F-64000 Pau (FR). SCHMITT, Paul-Guillaume [FR/FR]; 15, Rue Galliéni, F-92600 Asnieres (FR).

(74) Agent: TREUIL, Claude; Arkema, Département Propriété Industrielle, 4-8 Cours Michelet - La Défense 10, F-92091 Paris La Defense (FR).

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(54) Title: METHOD OF PURIFYING A GAS STREAM CONTAMINATED BY CO₂ AND ONE OR MORE HYDROCARBONS AND/OR NITROGEN OXIDES BY ADSORPTION ON AN AGGREGATED ZEOLITIC ADSORBENT

(57) Abstract: The present invention relates to a novel method of purifying a gas stream contaminated by CO₂, hydrocarbons and/or nitrogen oxides, in particular a gas stream based an air or a syngas, by adsorption an a bed of aggregated zeolitic adsorbent based an an LSX zeolite or LSX and X zeolites, of which at least 90% of the exchangeable cationic sites of the LSX zeolite or of the LSX/X zeolite blend are occupied by sodium Ions, and the inert binder of which represents at most 5% of the weight of the adsorbent.